CDF Operations Report

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9-Feb-2004

All Experimenters' Meeting

STORE SUMMARY

Store	Start Date	Duration (hours)	Inst Lum Initial e30 cm-2 s-1	Int. Lum Delivered nb-1	Live Lum nb-1	Good/w Silicon nb-1	Tevatron Terminate
3214	2/02	33.4	58.2	3,034	2,637 86.9%	2,637 86.9%	OK
3217	2/04	27.6	58.1	2,713	2,517 92.8%	2,516 92.7%	OK
3219	2/05	27.5	61.8	2,800	2,543 90.8%	2,542 90.8%	"OK"
3222	2/07	39.4	59.2	3,245	2,946 90.8%	2,652 81.7%	OK
3224	2/08	ongoing	53.7	CDF solenoid down for wet engine repair			
Total		128.4		11,792	10,642 90.2%	10,432 88.5%	

Store 3222 did special runs at end of store. All live luminosity was useful.

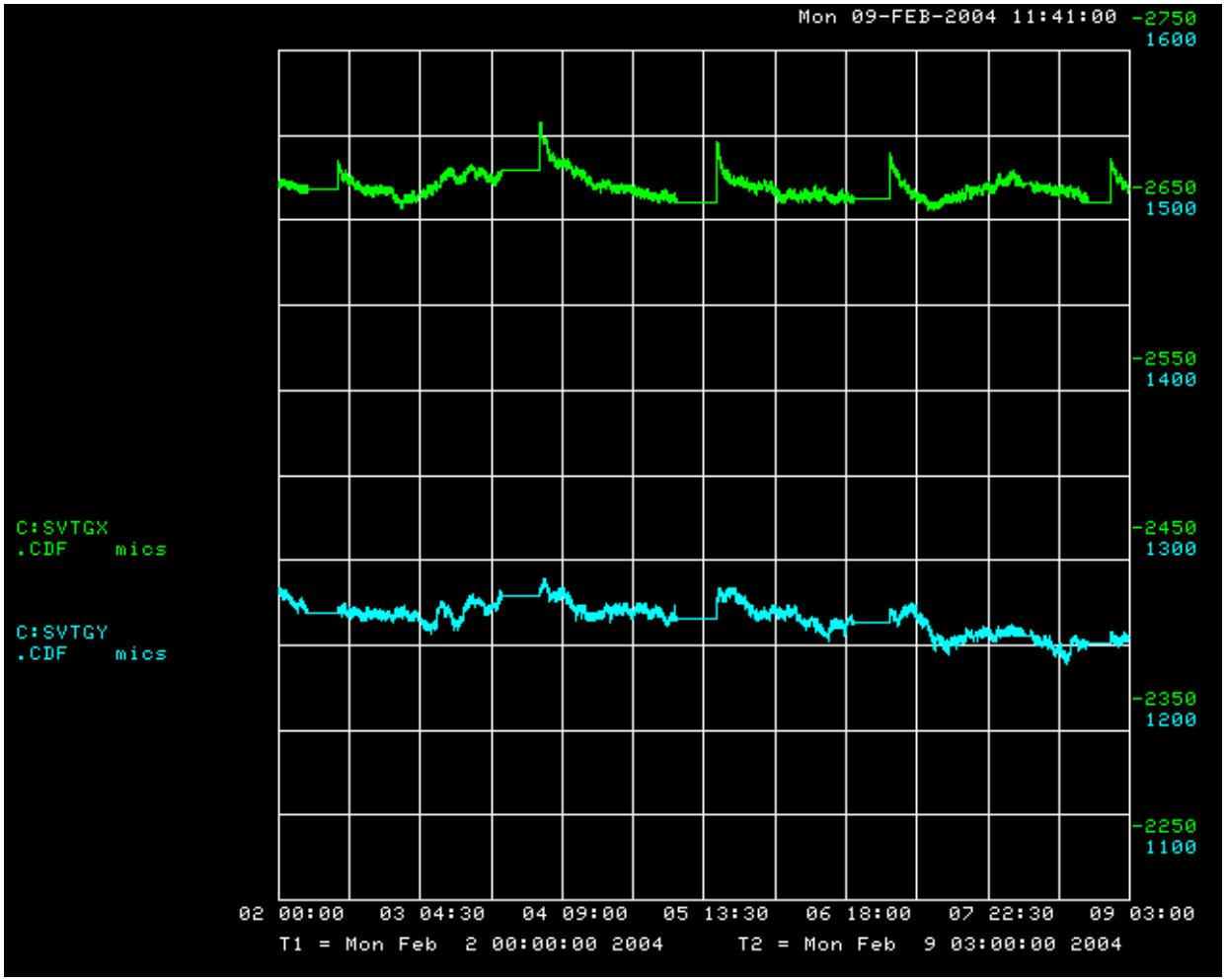
CDF Status (1)

- Record CDF initial luminosity taking data 60.6e30 cm-2s-1
- Record single physics "run" of 2,469 nb-1
- Record live luminosity for store 2,946 nb-1
- Record week integrated live luminosity 10,642 nb-1
- Efficiency for week was 90.2%. About 3-4% of this is DAQ deadtime (averaged over store).
- Stores have been very clean for proton losses and abort gap losses. There have been no issues on including Silicon.
- Everyone in CDF Control Room on Friday evening was impressed when MCR managed to recover and cleanly abort store 3219 after power problem at A0.

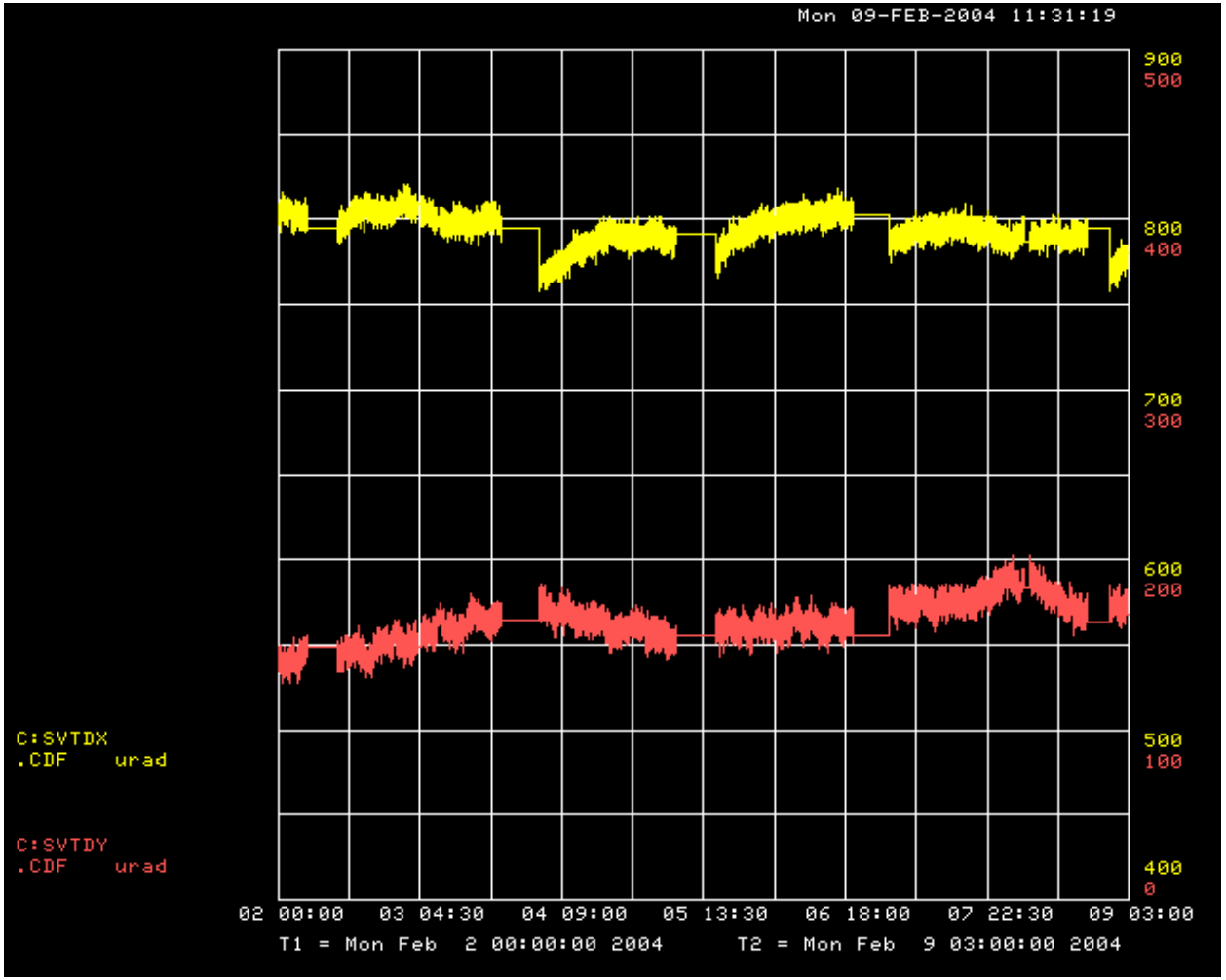
CDF STATUS (2)

- **Improved efficiency due to a number of items**
  - Long stores lessen impact of startup time
  - Implemented "work-arounds" for fast recovery from several infrequent DAQ problems. ("on-the-fly" reboot of L2 processor board, stuck silicon resonance error)
  - Fixed problems with RTSERVER (commercial message passing software) licensing over-run.
  - Several other small updates/repairs helped smooth out DAQ system.
- **Time-Of-Flight HV problem found and repaired**
- **Motor generator for Wet Expansion Engine failed and took down cyro/solenoid just after start of store 3224. Repaired and CDF should be back taking data soon. Used down time today for development work on DAQ aimed at preparing for even higher luminosity running AND took some field-off alignment data.**
- **OVERALL – CDF IS IN GOOD CONDITION.**

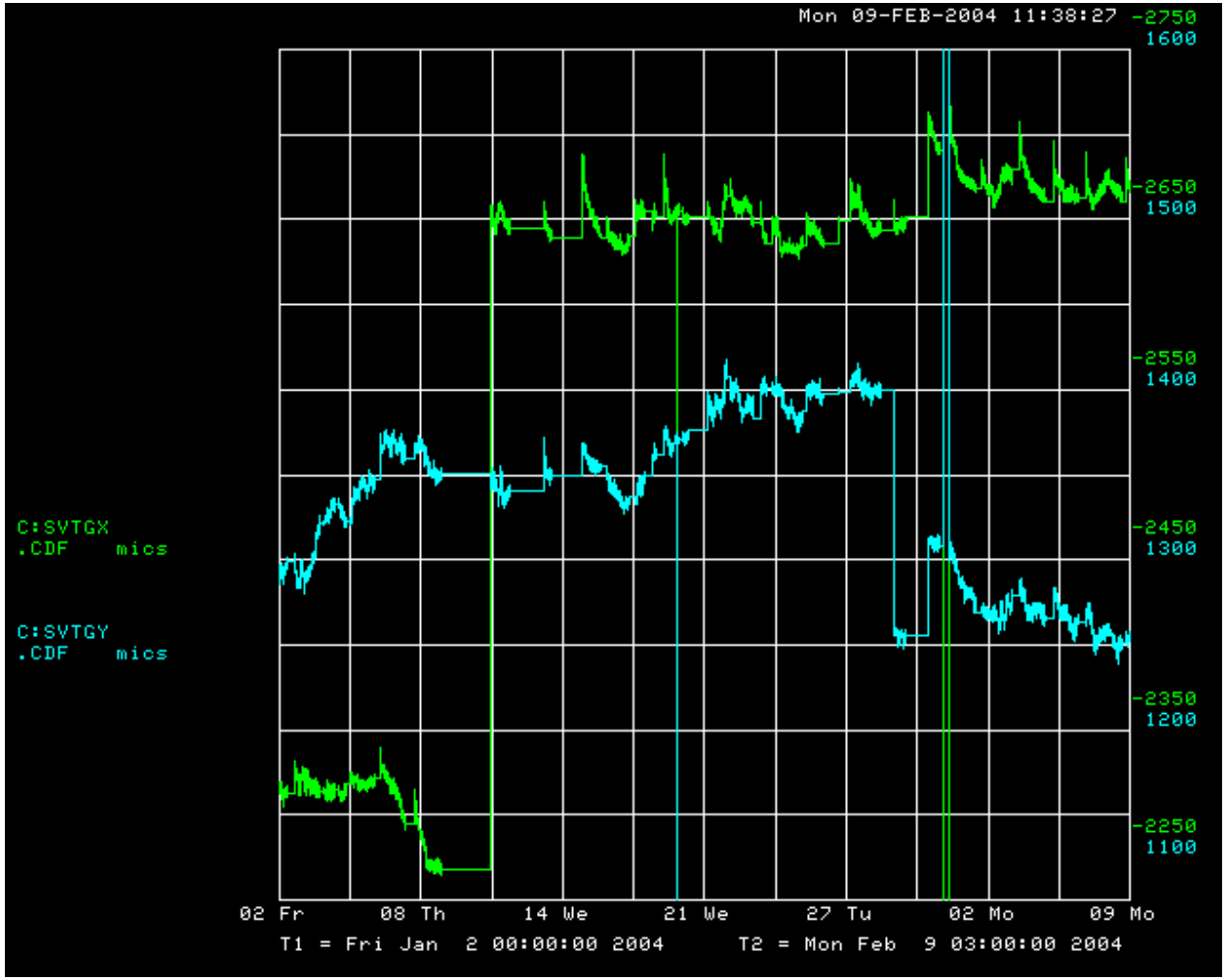
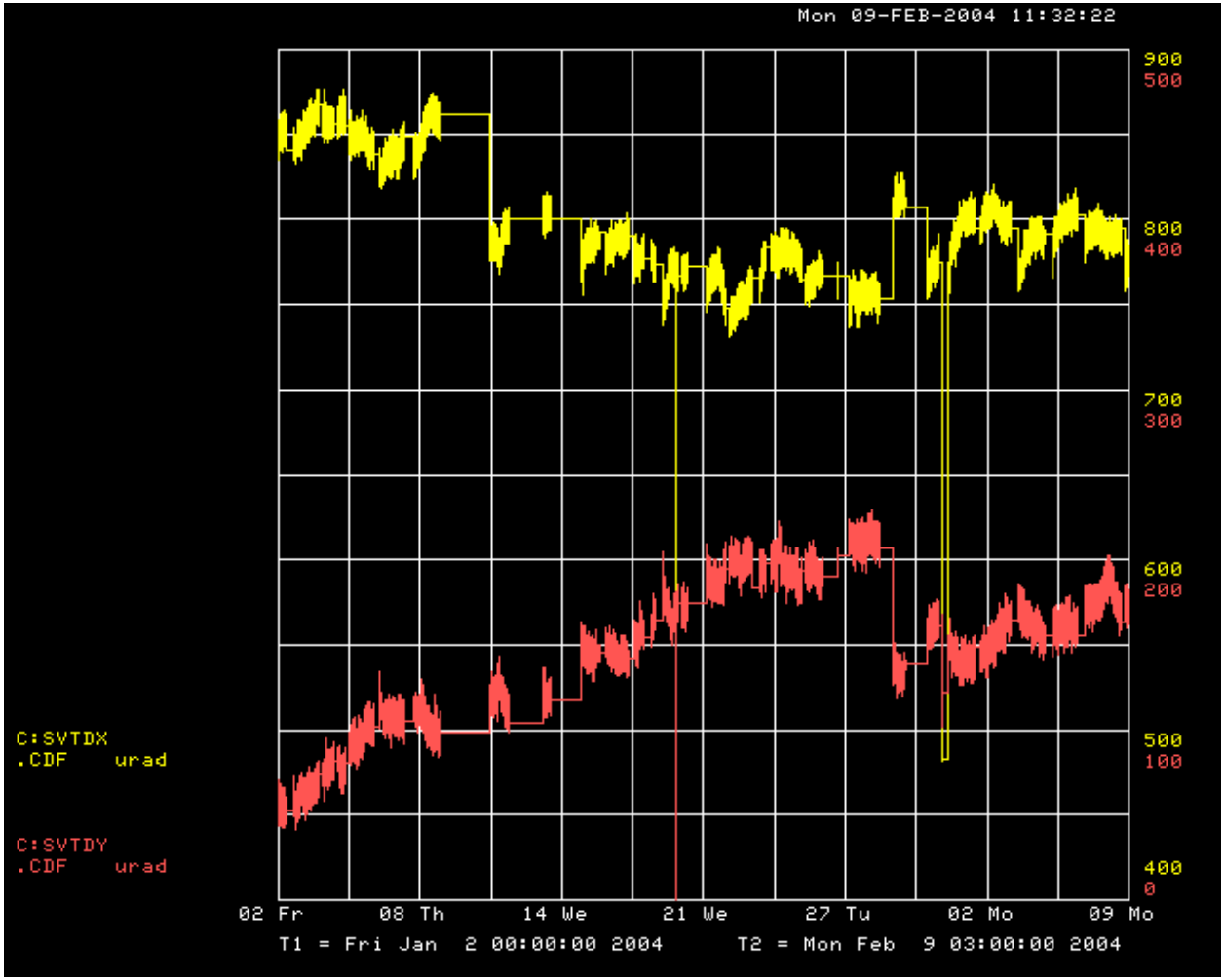
IP POSITION X,Y THIS WEEK



IP DX/DZ DY/DZ THIS WEEK



IP POSITION THIS YEAR



IP DX/DZ DY/DZ THIS YEAR